

Title (en)  
FERRIC ARSENATE POWDER

Title (de)  
EISEN(III)-ARSENAT-PULVER

Title (fr)  
POUDRE D'ARSÉNIATE FERRIQUE

Publication  
**EP 2192089 A4 20110209 (EN)**

Application  
**EP 08792799 A 20080822**

Priority  
• JP 2008065474 W 20080822  
• JP 2007218855 A 20070824

Abstract (en)  
[origin: EP2192089A1] There is provided an iron arsenate powder which is produced from an arsenic containing solution and wherein the concentration of arsenic eluted or released from the powder is very low. The iron arsenate powder is a powder of dihydrate of iron arsenate, which has a crystal structure of rhombic system and which has lattice constants of  $a = 0.8950$  to  $0.8956$  nm,  $b = 1.0321$  to  $1.0326$  nm and  $c = 1.0042$  to  $1.0050$  nm at room temperatures and atmospheric pressure. The iron arsenate powder can be produced by a method comprising the steps of: adding ferrous ions to an arsenic containing solution to cause the molar ratio (Fe/As) of iron to arsenic in the solution to be not lower than 1; adding an oxidizing agent to the solution; heating the solution to a temperature of not lower than  $70^{\circ}\text{C}$  while stirring the solution, to allow a reaction; and carrying out a solid-liquid separation to wash the obtained solid part.

IPC 8 full level  
**C01G 49/00** (2006.01); **C01G 28/00** (2006.01); **C02F 1/62** (2006.01)

CPC (source: EP US)  
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Citation (search report)  
• [A] E. KRAUSE, V.A. ETTEL: "Solubilities and Stabilities of Ferric Arsenate Compounds", HYDROMETALLURGY, vol. 22, 1989, pages 311 - 337, XP002615158  
• See references of WO 2009028636A1

Cited by  
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